



```

LL          IIIIII          SSSSSSSS
LL          IIIIII          SSSSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SSSSSS
LL          II             SSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
LL          II             SS
LLLLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLLLL IIIIII          SSSSSSSS

```



```
1 0001 0 MODULE MAKLOG (
2 0002 0
3 0003 0 LANGUAGE (BLISS32),
4 0004 0 IDENT = 'V04-000'
5 0005 1 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: MOUNT Utility Structure Levels 1 & 2
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 These routines allocate and hook up the logical name and mounted
38 0038 1 volume list entries.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1 STARLET operating system, including privileged system services
43 0043 1 and internal exec routines.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 20-Oct-1977 19:30
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1 V03-018 HH0041 Hai Huang 24-Jul-1984
53 0053 1 Remove REQUIRE 'LIBD$:[VMSLIB.OBJ]MOUNTMSG.B32'.
54 0054 1
55 0055 1 V03-017 HH0040 Hai Huang 20-Jul-1984
56 0056 1 Cal EX$CRE_GTABLE to create the logical name table if
57 0057 1 it doesn't already exist.
```

58	0058	1	V03-016	HH0038	Hai Huang	12-Jul-1984
59	0059	1			Correct MOUNT_FLAGS structure attribute.	
60	0060	1	V03-015	MHB0153	Mark Bramhall	27-Apr-1984
61	0061	1			Correct NSASB_ARG_FLAG setting for multiple audits enabled.	
62	0062	1	V03-014	ACG0423	Andrew C. Goldstein,	24-Apr-1984 11:06
63	0063	1			Make disk logical names in MOUNT exec mode to make them	
64	0064	1			available to privileged programs.	
65	0065	1	V03-013	HH0012	Hai Huang	09-Apr-1984
66	0066	1			Get the device owner UIC and the volume protection	
67	0067	1			from the ORB instead of the UCB.	
68	0068	1	V03-012	HH0009	Hai Huang	27-Mar-1984
69	0069	1			Add security auditing support.	
70	0070	1	V03-011	HH0007	Hai Huang	21-Mar-1984
71	0071	1			Add cluster-wide group-volume support, i.e., create the	
72	0072	1			group logical name in the group table of the current	
73	0073	1			process.	
74	0074	1	V03-010	HH0002	Hai Huang	23-Jan-1984
75	0075	1			Add job-wide mount support.	
76	0076	1	V03-009	ROW0254	Ralph O. Weber	12-NOV-1983
77	0077	1			Cause logical names defined herein to be of the GETDVI	
78	0078	1			FULLDEVNAM form. This will result in allocation class names	
79	0079	1			being used for the equivalence name strings of logical names	
80	0080	1			defined by mount. Therefore, the mounted volume logical name	
81	0081	1			equivalence strings can be held over time and passed around	
82	0082	1			the VAXcluster without becoming stale.	
83	0083	1	V03-008	CDS0001	Christian D. Saether	2-Aug-1983
84	0084	1			Remove references to RVX structure (obsolete).	
85	0085	1	V03-007	DMW4057	DMWalp	23-Jun-1983
86	0086	1			Change \$xxLNM value parameters to be by reference	
87	0087	1	V03-006	DMW4050	DMWalp	15-Jun-1983
88	0088	1			Corrections to DMW4033, added LNMSM_TERMINAL	
89	0089	1			Change over to LNMS_LNMB_ADDR	
90	0090	1	V03-005	ADE9004	A.ELDRIDGE	29-May-1983
91	0091	1			Fixed name binding to logical name tables.	
92	0092	1	V03-004	DMW4033	DMWalp	26-May-1983
93	0093	1			Integrate new logical name structures.	
94	0094	1	V03-003	STJ50311	Steven T. Jeffreys,	10-Feb-1982
95	0095	1			- Make all uses of PHYS_NAME indexed by DEVICE_INDEX,	
96	0096	1			but always use PHYS_NAME[0] for tape mounts.	
97	0097	1			- Set the access mode of the logical names(s) created	
98	0098	1			to be the MIN (PSL\$C_SUPER,.CALLERS_ACMOD). (SPR 45688)	
99	0099	1	V03-002	DMW4010	DMWalp	19-Nov-1982
100	0100	1				
101	0101	1				
102	0102	1				
103	0103	1				
104	0104	1				
105	0105	1				
106	0106	1				
107	0107	1				
108	0108	1				
109	0109	1				
110	0110	1				
111	0111	1				
112	0112	1				
113	0113	1				
114	0114	1				



```
: 115      0115 1  Rework logical name block to MTL ( or UCB ) links.
: 116      0116 1
: 117      0117 1  V03-001 STJ0248      Steven T. Jeffreys,      31-Mar-1982
: 118      0118 1  - Allow for ASCII "A" characters in a volume name.
: 119      0119 1
: 120      0120 1  V02-006 STJ0205      Steven T. Jeffreys,      07-Feb-1982
: 121      0121 1  Create a local copy of the user specified logical name
: 122      0122 1  to prevent it from being stepped on.
: 123      0123 1
: 124      0124 1  V02-005 LMP0006      L. Mark Pilant,      29-Dec-1981 12:00
: 125      0125 1  Interlock the mount list to avoid potential disasters.
: 126      0126 1
: 127      0127 1  V02-004 ACG0219      Andrew C. Goldstein,    23-Oct-1981 10:48
: 128      0128 1  Add concealed device support in MOUNT
: 129      0129 1
: 130      0130 1  V02-003 STJ0122      Steven T. Jeffreys,    10-Sep-1981
: 131      0131 1  Fixed references to the logical name descriptor to use
: 132      0132 1  the symbolic offsets. This ensures that references to
: 133      0133 1  the logical name length will be WORD context.
: 134      0134 1
: 135      0135 1  V02-002 ACG0167      Andrew C. Goldstein,    18-Apr-1980 13:38
: 136      0136 1  Previous revision history moved to MOUNT.REV
: 137      0137 1  **
: 138      0138 1
: 139      0139 1
: 140      0140 1  LIBRARY 'SYSS$LIBRARY:LIB.L32';
: 141      0141 1  REQUIRE 'SRC$:MOUDEF.B32';
: 142      0673 1
: 143      0674 1
: 144      0675 1  LITERAL
: 145      0676 1  PHYS_LENGTH      = 15;      ! longest allowable physical name
: 146      0677 1
: 147      0678 1  FORWARD ROUTINE
: 148      0679 1  LABEL_LENGTH;      ! return the length of a volume label
```

```

150 0680 1 GLOBAL ROUTINE ALLOC_LOGNAME (MODE) : NOVALUE =
151 0681 1
152 0682 1 ++
153 0683 1
154 0684 1 FUNCTIONAL DESCRIPTION:
155 0685 1
156 0686 1 This routine allocates the mounted volume list entry from the
157 0687 1 appropriate storage pools. It used to allocate logical name block
158 0688 1 also ( thus the name ).
159 0689 1
160 0690 1
161 0691 1 CALLING SEQUENCE:
162 0692 1 ALLOC_LOGNAME ( )
163 0693 1
164 0694 1 INPUT PARAMETERS:
165 0695 1 MODE: 0 to use user-specified logical name
166 0696 1 1 to force use of volume name
167 0697 1
168 0698 1 IMPLICIT INPUTS:
169 0699 1 MOUNT parser database
170 0700 1
171 0701 1 OUTPUT PARAMETERS:
172 0702 1 NONE
173 0703 1
174 0704 1 IMPLICIT OUTPUTS:
175 0705 1 MTL_ENTRY: address of MTL block
176 0706 1
177 0707 1 ROUTINE VALUE:
178 0708 1 NONE
179 0709 1
180 0710 1 SIDE EFFECTS:
181 0711 1 NONE
182 0712 1
183 0713 1 --
184 0714 1
185 0715 2 BEGIN
186 0716 2
187 0717 2 EXTERNAL
188 0718 2 MOUNT_OPTIONS : BITVECTOR, ! command options
189 0719 2 MTL_ENTRY : REF BBLOCK; ! MTL block
190 0720 2
191 0721 2 EXTERNAL ROUTINE
192 0722 2 ALLOCATE_MEM; ! allocate dynamic memory
193 0723 2
194 0724 2
195 0725 2 ! Now allocate the mounted volume list entry.
196 0726 2 ! Note: to support job-wide mount, a mount list entry
197 0727 2 ! is always allocated from paged pool.
198 0728 2
199 0729 2 MTL_ENTRY = ALLOCATE_MEM (MTL$C_LENGTH, 1);
200 0730 2
201 0731 2 MTL_ENTRY[MTL$B_TYPE] = DYN$C_MTL;
202 0732 2
203 0733 1 END; ! end of routine ALLOC_LOGNAME
```

.TITLE MAKLOG



MAKLOG  
V04-000

D 10  
16-Sep-1984 01:16:19 VAX-11 Bliss-32 V4.0-742 Page 5  
14-Sep-1984 12:45:22 DISK\$VMSMASTER:[MOUNT.SRC]MAKLOG.B32;1 (2)

.IDENT \V04-000\

.EXTRN MOUNT\_OPTIONS, MTL\_ENTRY  
.EXTRN ALLOCATE\_MEM

.PSECT \$CODE\$,NOWRT,2

.ENTRY ALLOC\_LOGNAME, Save nothing  
PUSHL #1  
PUSHL #24  
CALLS #2, ALLOCATE\_MEM  
MOVL R0, MTL\_ENTRY  
MOVB #25, 10(R0)  
RET

: 0680  
: 0729  
:  
:  
:  
:  
: 0731  
: 0733

0000G CF  
0000G CF  
OA AO

0000 00000  
01 DD 00002  
18 DD 00004  
02 FB 00006  
50 D0 0000B  
19 90 00010  
04 00014

; Routine Size: 21 bytes, Routine Base: \$CODE\$ + 0000

```
205 0734 1 GLOBAL ROUTINE ENTER_LOGNAME (UCB, VCB) : NOVALUE =
206 0735 1
207 0736 1 ++
208 0737 1
209 0738 1 FUNCTIONAL DESCRIPTION:
210 0739 1
211 0740 1 This routine completes the logical name and mounted volume list
212 0741 1 entries. It builds MTL entry and creates the logical name
213 0742 1 and hooks up the MTL entry in the appropriate list.
214 0743 1
215 0744 1
216 0745 1 CALLING SEQUENCE:
217 0746 1 ENTER_LOGNAME (ARG1, ARG2)
218 0747 1
219 0748 1 INPUT PARAMETERS:
220 0749 1 ARG1: UCB of volume being mounted
221 0750 1 ARG2: VCB of volume being mounted
222 0751 1
223 0752 1 IMPLICIT INPUTS:
224 0753 1 MOUNT parser data base
225 0754 1 MTL_ENTRY: address of MTL block
226 0755 1 SMTL_ENTRY: address of MTL block for volume set
227 0756 1
228 0757 1 OUTPUT PARAMETERS:
229 0758 1 NONE
230 0759 1
231 0760 1 IMPLICIT OUTPUTS:
232 0761 1 NONE
233 0762 1
234 0763 1 ROUTINE VALUE:
235 0764 1 NONE
236 0765 1
237 0766 1 SIDE EFFECTS:
238 0767 1 logical name and MTL entry entered
239 0768 1
240 0769 1 --
241 0770 1
242 0771 2 BEGIN
243 0772 2
244 0773 2 MAP
245 0774 2 UCB : REF BBLOCK, ! UCB being mounted
246 0775 2 VCB : REF BBLOCK; ! VCB being mounted
247 0776 2
248 0777 2 BUILTIN
249 0778 2 INSQUE,
250 0779 2 CALLG;
251 0780 2
252 0781 2 BIND
253 0782 2 TAPE_PREFIX = UPLIT BYTE ( 'TAPES' ),
254 0783 2 DISK_PREFIX = UPLIT BYTE ( 'DISK$' ),
255 0784 2 SYSTEM_TABLE = %ASCID 'LNM$SYSTEM',
256 0785 2 JOB_TABLE = %ASCID 'LNM$JOB';
257 0786 2
258 0787 2 LOCAL
259 0788 2 ACMODE, ! access mode
260 0789 2 INDEX, ! local index into PHYS_NAME vector
261 0790 2 P, ! string pointer
```



```
262 0791 2 C,
263 0792 2 RVT : REF BBLOCK, ! string count
264 0793 2 NAME_DESC : BBLOCK [DSC$K_S_BLN], ! pointer to RVT
265 0794 2 : ! internal logical name descriptor
266 0795 2 LOG_BUFFER : VECTOR [LNMSC_NAMELENGTH, BYTE], ! logical name buffer
267 0796 2 MOUNT_LIST : REF BBLOCK, ! address of mount list tail
268 0797 2 ITEM_LIST : VECTOR [(6*3)+1, LONG], ! $CRELNM item list, 6 items each
269 0798 2 : ! 3 longwords in length plus 1
270 0799 2 : ! for the terminator longword
271 0800 2
272 0801 2 PHYSNAM_DESC : BBLOCK [ DSC$K_S_BLN ], ! GETDVI descriptor for physical name
273 0802 2 FULLNAM : VECTOR [ PHYS_LENGTH + 2, BYTE ], ! Place to store the FULLDEVNAM string
274 0803 2
275 0804 2 DVI_ITEM : VECTOR [ 3+1, LONG ], ! GETDVI item list
276 0805 2
277 0806 2 JIB : REF BBLOCK, ! pointer to Job Info Block
278 0807 2 TABLE_NAME : VECTOR [16, BYTE]
279 0808 2 : INITIAL (%ASCII 'LNMSGROUP_000000'), ! Group table name
280 0809 2
281 0810 2 GROUP_TABLE : VECTOR [2, LONG]
282 0811 2 : INITIAL (16, TABLE_NAME), ! Group table name descriptor
283 0812 2
284 0813 2 ASC_GROUP : VECTOR [8, BYTE]
285 0814 2 : INITIAL (%ASCII '00000000'), ! Group in ASCII (6 bytes used)
286 0815 2
287 0816 2 ASC_GROUP_DESC : VECTOR [2, LONG]
288 0817 2 : INITIAL (6, ASC_GROUP); ! ASCII group descriptor
289 0818 2
290 0819 2
291 0820 2
292 0821 2
293 0822 2 EXTERNAL
294 0823 2 MOUNT_OPTIONS : BITVECTOR, ! command options
295 0824 2 MOUNT_FLAGS : VECTOR, ! mount flags
296 0825 2 CALLERS_ACMOD : LONG, ! Caller's (of $MOUNT) access mode
297 0826 2 DEVICE_CHAR : BBLOCK, ! device characteristics
298 0827 2 DEVICE_COUNT, ! number of devices specified
299 0828 2 LOG_NAME : VECTOR, ! logical name descriptor
300 0829 2 DEVICE_INDEX : LONG, ! index into PHYS_NAME vector
301 0830 2 PHYS_NAME : VECTOR, ! physical device name descriptor
302 0831 2 MTL_ENTRY : REF BBLOCK, ! MTL block
303 0832 2 SMT_ENTRY : REF BBLOCK, ! MTL block for volume set
304 0833 2 SCH$GL_CURPCB : REF BBLOCK ADDRESSING_MODE (GENERAL), ! address of our PCB
305 0834 2
306 0835 2 IOC$GQ_MOUNTLIST : VECTOR ADDRESSING_MODE (GENERAL), ! system mounted volume list head
307 0836 2
308 0837 2 EX$GL_FLAGS : BITVECTOR ADDRESSING_MODE (GENERAL), ! exec flags longword
309 0838 2
310 0839 2 NS$GR_ALARMVEC : BBLOCK ADDRESSING_MODE (GENERAL), ! alarm enable bit vector
311 0840 2
312 0841 2 NS$GR_JOURNVEC : BBLOCK ADDRESSING_MODE (GENERAL); ! journal enable bit vector
313 0842 2
314 0843 2
315 0844 2 EXTERNAL LITERAL
316 0845 2 EX$V_CONCEALED : UNSIGNED (6); ! concealed device flag
317 0846 2
318 0847 2
```

```
319 0848 2 LINKAGE
320 0849 2     ARGST_IMGNAM = JSB (REGISTER = 2;) :
321 0850 2     NOPRESERVE (0,1)
322 0851 2     NOTUSED (3,4,5,6,7,8,9,10,11),
323 0852 2
324 0853 2     EXE_CRE_GTABLE = JSB (REGISTER = 11) :
325 0854 2     NOPRESERVE (0,1,2,3,4,5,8);
326 0855 2
327 0856 2 EXTERNAL ROUTINE
328 0857 2     LOCK_IODB,           ! lock the I/O data base
329 0858 2     UNLOCK_IODB,        ! unlock the I/O data base
330 0859 2     NSASEVENT_AUDIT : ADDRESSING_MODE (GENERAL),
331 0860 2     ! security auditing routine
332 0861 2     NSASARGST_IMGNAM : ARGST_IMGNAM ADDRESSING_MODE (GENERAL),
333 0862 2     ! insert IMGNAM into ARGST
334 0863 2     EXESCRE_GTABLE : EXE_CRE_GTABLE ADDRESSING_MODE (GENERAL);
335 0864 2     ! create group logical name table
336 0865 2
337 0866 2
338 0867 2 ! First build the volume logical name table entry.
339 0868 2 ! Use logical name from command unless:
340 0869 2 !   - There is no logical name
341 0870 2 !   - It is a disk volume set
342 0871 2 !   - More than one device is being mounted, and they are not magtapes.
343 0872 2
344 0873 2 ! Get the logical name; either from the command or from the volume label.
345 0874 2
346 0875 2
347 0876 2 ! Copy the user-specified logical name to local storage.
348 0877 2
349 0878 2
350 0879 2 CH$MOVE (.LOG_NAME[0], .LOG_NAME[1], LOG_BUFFER);
351 0880 2 NAME_DESC [DSC$W_LENGTH] = .LOG_NAME [0];
352 0881 2 NAME_DESC [DSC$B_DTYPE] = 0;
353 0882 2 NAME_DESC [DSC$B_CLASS] = 0;
354 0883 2 NAME_DESC [DSC$A_POINTER] = LOG_BUFFER;
355 0884 2
356 0885 2
357 0886 2 ! Calculate the access mode for the logical name creation
358 0887 2
359 0888 2
360 0889 2 ACMODE = MIN ((IF .MOUNT_OPTIONS[OPT_SYSTEM]
361 0890 2     THEN PSL$C_EXEC
362 0891 2     ELSE PSL$C_SUPER), .CALLERS_ACMOD);
363 0892 2
364 0893 2 IF NOT .MOUNT_OPTIONS[OPT_LOG_NAME]
365 0894 2 OR .SMTL_ENTRY NEQ 0
366 0895 2 OR (.DEVICE_COUNT NEQ 1 AND (NOT .DEVICE_CHAR[DEV$V_SQD]))
367 0896 2 THEN
368 0897 2     BEGIN
369 0898 2     IF .DEVICE_CHAR[DEV$V_SQD]
370 0899 2     THEN P = TAPE_PREFIX
371 0900 2     ELSE P = DISK_PREFIX;
372 0901 2
373 0902 2 C = LABEL_LENGTH (VCB$S_VOLNAME, VCB[VCB$T_VOLNAME]);
374 0903 2 NAME_DESC[DSC$W_LENGTH] = .C + 5;
375 0904 2 NAME_DESC[DSC$A_POINTER] = LOG_BUFFER;
```



```

376 0905 3 CH$COPY (5, .P, .C, VCB[VCB$T_VOLNAME], 0, .C+5, LOG_BUFFER);
377 0906 3 END;
378 0907 3
379 0908 3 ! Now create logical name. The physical device string is the equivalence
380 0909 3 ! string. If a tape mount, use the physical name of the first volume,
381 0910 3 ! otherwise use the physical name of the current volume.
382 0911 3 !
383 0912 3
384 0913 3 INDEX = .DEVICE_INDEX;
385 0914 3 IF .BBLOCK [UCB[UCB$L_DEVCHAR], DEV$V_SQD]
386 0915 3 THEN
387 0916 3     INDEX = 0;
388 0917 3
389 0918 3 ! Store the location of the LNM block in the MTL
390 0919 3 !
391 0920 3 ITEM_LIST [ 0 ] = ( LNMS_LNMB_ADDR^16 OR 4 );
392 0921 3 ITEM_LIST [ 1 ] = MTL_ENTRY[MTL$L_LOGNAME]; ! CAUTION USED BY ITEM_LIST [ 7 ]
393 0922 3 ITEM_LIST [ 2 ] = 0;
394 0923 3
395 0924 3 ! Store the location of the MTL in the LNM BLOCK.
396 0925 3 ! This causes the logical name deletion logic to clear the MTL's logical name
397 0926 3 ! pointer if the logical name is deleted, just as it does when a mailbox
398 0927 3 ! logical name is deleted.
399 0928 3 !
400 0929 3 ITEM_LIST [ 3 ] = ( LNMS_INDEX^16 OR 4 );
401 0930 3 ITEM_LIST [ 4 ] = UPLIT ( LNMX$C_BACKPTR );
402 0931 3 ITEM_LIST [ 5 ] = 0;
403 0932 3 ITEM_LIST [ 6 ] = ( LNMS_STRING^16 OR 4 );
404 0933 3 ITEM_LIST [ 7 ] = ITEM_LIST [ 1 ];
405 0934 3 ITEM_LIST [ 8 ] = 0;
406 0935 3
407 0936 3 ! Define equivalence string
408 0937 3 !
409 0938 3 ITEM_LIST [ 9 ] = ( LNMS_INDEX^16 OR 4 );
410 0939 3 ITEM_LIST [ 10 ] = UPLIT ( 0 );
411 0940 3 ITEM_LIST [ 11 ] = 0;
412 0941 3
413 0942 3 ITEM_LIST [ 12 ] = ( LNMS_ATTRIBUTES^16 OR 4 );
414 0943 3 ITEM_LIST [ 13 ] = ( IF .EXESGL_FLAGS[EXESV_CONCEALED]
415 0944 3     THEN UPLIT ( LNMSM_TERMINAL OR LNMSM_CONCEALED )
416 0945 3     ELSE UPLIT ( LNMSM_TERMINAL ) );
417 0946 3 ITEM_LIST [ 14 ] = 0;
418 0947 3
419 0948 3 ! Use GETDVI to obtain the most universal device name for this physical
420 0949 3 ! device, FULLDEVNAM, and pass that to CRELNM as the equivalence name
421 0950 3 ! string.
422 0951 3 !
423 0952 3 PHYSNAM_DESC [ DSC$W_LENGTH ] = .PHYS_NAME [ .INDEX*2 ] - 1;
424 0953 3 PHYSNAM_DESC [ DSC$A_POINTER ] = .PHYS_NAME [ .INDEX*2 + 1 ] + 1;
425 0954 3 PHYSNAM_DESC [ DSC$B_DTYPE ] = 0;
426 0955 3 PHYSNAM_DESC [ DSC$B_CLASS ] = 0;
427 0956 3
428 0957 3 DVI_ITEM [ 0 ] = ( DVI$ FULLDEVNAM^16 OR ( PHYS_LENGTH + 2 ) );
429 0958 3 DVI_ITEM [ 1 ] = FULLNAM;
430 0959 3 DVI_ITEM [ 2 ] = ITEM_LIST [ 15 ];
431 0960 3 DVI_ITEM [ 3 ] = 0;
432 0961 3 ITEM_LIST [ 15 ] = 0;
```

```
433 0962 2
434 P 0963 2 $GETDVIW (
435 P 0964      devnam = PHYSNAM DESC,
436 0965      itmlst = DVI_ITEM );
437 0966
438 0967 IF .FULLNAM [ 0 ] eql %C'_'
439 0968 THEN BEGIN
440 0969     ITEM_LIST [ 15 ] = ( LNMS_STRING^16 or ( .ITEM_LIST [ 15 ] - 1 ) );
441 0970     ITEM_LIST [ 16 ] = FULLNAM + 1;
442 0971 END
443 0972 ELSE BEGIN
444 0973     ITEM_LIST [ 15 ] = ( LNMS_STRING^16 or .ITEM_LIST [ 15 ] );
445 0974     ITEM_LIST [ 16 ] = FULLNAM;
446 0975 END;
447 0976 ITEM_LIST [ 17 ] = 0;
448 0977
449 0978 ! End item list
450 0979
451 0980 ITEM_LIST [ 18 ] = 0;
452 0981
453 0982 !
454 0983 ! If the volume is to be mounted /group, then we have to create the group logical
455 0984 ! name in the group of the current process. To avoid the situation that the group
456 0985 ! table does not exist, we call the EXESCRE_GTABLE routine, which creates the group
457 0986 ! table if it doesn't already exist.
458 0987
459 0988 IF .MOUNT_OPTIONS [ OPT_GROUP ]
460 0989 THEN
461 0990 BEGIN
462 0991
463 P 0992     $FAO ( %ASCID 'LNMSGROUP_!OW',          ! Format LNMSGROUP_xxxxxx
464 P 0993         GROUP_TABLE,
465 P 0994         GROUP_TABLE,
466 0995         .(SCH$GL_CURPCB [PCB$L_UIC]) <16,16>); ! Convert our group number to octal
467 0996
468 P 0997     $FAO ( %ASCID '!OW',          ! Format octal in ASCII
469 P 0998         ASC_GROUP_DESC,
470 P 0999         ASC_GROUP_DESC,
471 1000         .(SCH$GL_CURPCB [PCB$L_UIC]) <16,16>); ! Convert our group number to octal
472 1001
473 1002 EXESCRE_GTABLE (ASC_GROUP);          ! Create the LNMSGROUP_xxxxxx table
474 1003
475 1004 END;          ! exists
476 1005
477 1006
478 P 1007 $CRELNM
479 P 1008 ( ACMODE = ACMODE,
480 P 1009   TABNAM = (IF .MOUNT_OPTIONS [ OPT_SYSTEM ]
481 P 1010             THEN SYSTEM_TABLE
482 P 1011             ELSE
483 P 1012               IF .MOUNT_OPTIONS [ OPT_GROUP ]
484 P 1013                 THEN GROUP_TABLE
485 P 1014                 ELSE JOB_TABLE
486 P 1015             )
487 P 1016   LOGNAM = NAME_DESC,
488 1017   ITMLST = ITEM_LIST );
489 1018 2
```



```

490      1019 2 ! Link the MTL entry into the list
491      1020 2
492      1021 2 MTL_ENTRY[MTL$$_UCB] = .UCB;
493      1022 2 LOCK_IODB (); ! lock the mount list
494      1023 2
495      1024 2 IF .MOUNT_OPTIONS[OPT_GROUP] OR .MOUNT_OPTIONS[OPT_SYSTEM]
496      1025 2 THEN MOUNT_LIST = IOC$GQ_MOUNTLIST[1]
497      1026 2 ELSE
498      1027 2 BEGIN
499      1028 2 JIB = .SCH$GL_CURPCB[PCB$$_JIB];
500      1029 2 MOUNT_LIST = JIB[JIB$$_MTL$$_MTL]; ! get the tail of the mount list
501      1030 2 END;
502      1031 2 INSQUE (.MTL_ENTRY, ..MOUNT_LIST);
503      1032 2
504      1033 2 UNLOCK_IODB (); ! unlock the mount list
505      1034 2
506      1035 2 ! Now build the volume set logical name if we are mounting volume 1 of a
507      1036 2 ! disk volume set.
508      1037 2
509      1038 2 IF .SMTL_ENTRY NEQ 0
510      1039 2 THEN
511      1040 2 BEGIN
512      1041 2
513      1042 2 ! Get the logical name; either from the command or from the volume label.
514      1043 2 !
515      1044 2
516      1045 2 ! Copy the user-specified logical name to local storage.
517      1046 2 !
518      1047 2 CH$MOVE (.LOG_NAME[0], .LOG_NAME[1], LOG_BUFFER);
519      1048 2 NAME_DESC [DSC$$_LENGTH] = .LOG_NAME [0];
520      1049 2 NAME_DESC [DSC$$_DTYPE] = 0;
521      1050 2 NAME_DESC [DSC$$_CLASS] = 0;
522      1051 2 NAME_DESC [DSC$$_POINTER] = LOG_BUFFER;
523      1052 2
524      1053 2 IF NOT .MOUNT_OPTIONS[OPT_LOG_NAME]
525      1054 2 THEN
526      1055 2 BEGIN
527      1056 2 IF .DEVICE_CHAR[DEV$$_SQD]
528      1057 2 THEN P = TAPE_PREFIX
529      1058 2 ELSE P = DISK_PREFIX;
530      1059 2
531      1060 2 RVT = .VCB[VCB$$_RVT];
532      1061 2 C = LABEL_LENGTH (RVT$$_STRUCNAME, RVT[RVT$$_STRUCNAME]);
533      1062 2 NAME_DESC [DSC$$_LENGTH] = .C + 5;
534      1063 2 NAME_DESC [DSC$$_POINTER] = LOG_BUFFER;
535      1064 2 CH$COPY (5, .P, .C, RVT[RVT$$_STRUCNAME], 0, .C+5, LOG_BUFFER);
536      1065 2 END;
537      1066 2
538      1067 2 ! Now create logical name. The physical device string is the equivalence
539      1068 2 ! string. If a tape mount, use the physical name of the first volume,
540      1069 2 ! otherwise use the physical name of the current volume.
541      1070 2
542      1071 2 INDEX = .DEVICE INDEX;
543      1072 2 IF .BBLOCK [UCB[UCB$$_DEVCHAR], DEV$$_SQD]
544      1073 2 THEN
545      1074 2 INDEX = 0;
546      1075 2
```

```
: 547      1076      3      ! Store the location of the LNM block in the MTL
: 548      1077      3
: 549      1078      3      ITEM_LIST [ 0 ] = ( LNMS LNMB ADDR^16 OR 4 );
: 550      1079      3      ITEM_LIST [ 1 ] = SMTL_ENTRY[MTLSL_LOGNAME];
: 551      1080      3      ITEM_LIST [ 2 ] = 0;
: 552      1081      3
: 553      1082      3      ! Store the location of the MTL in the LNM BLOCK.
: 554      1083      3      ! This causes the logical name deletion logic to clear the MTL's logical
: 555      1084      3      ! name pointer if the logical name is deleted, just as it does when a
: 556      1085      3      ! mailbox logical name is deleted.
: 557      1086      3
: 558      1087      3      ITEM_LIST [ 3 ] = ( LNMS INDEX^16 or 4 );
: 559      1088      3      ITEM_LIST [ 4 ] = UPLIT ( LNMX$C_BACKPTR );
: 560      1089      3      ITEM_LIST [ 5 ] = 0;
: 561      1090      3      ITEM_LIST [ 6 ] = ( LNMS STRING^16 or 4 );
: 562      1091      3      ITEM_LIST [ 7 ] = ITEM_LIST [ 1 ];
: 563      1092      3      ITEM_LIST [ 8 ] = 0;
: 564      1093      3
: 565      1094      3      ! Define equivalence string
: 566      1095      3
: 567      1096      3      ITEM_LIST [ 9 ] = ( LNMS INDEX^16 or 4 );
: 568      1097      3      ITEM_LIST [ 10 ] = UPLIT ( 0 );
: 569      1098      3      ITEM_LIST [ 11 ] = 0;
: 570      1099      3
: 571      1100      3      ITEM_LIST [ 12 ] = ( LNMS ATTRIBUTES^16 or 4 );
: 572      1101      4      ITEM_LIST [ 13 ] = ( IF .EXESGL_FLAGS[EXESV CONCEALED]
: 573      1102      4      THEN UPLIT ( LNMSM_TERMINAL OR LNMSM_CONCEALED )
: 574      1103      3      ELSE UPLIT ( LNMSM_TERMINAL ) );
: 575      1104      3      ITEM_LIST [ 14 ] = 0;
: 576      1105      3
: 577      1106      3      ! Use GETDVI to obtain the most universal device name for this physical
: 578      1107      3      ! device, FULLDEVNAM, and pass that to CRELNM as the equivalence name
: 579      1108      3      ! string.
: 580      1109      3
: 581      1110      3      PHYSNAM_DESC [ DSCSW_LENGTH ] = .PHYS_NAME [ .INDEX*2 ] - 1;
: 582      1111      3      PHYSNAM_DESC [ DSCSA_POINTER ] = .PHYS_NAME [ .INDEX*2 + 1 ] + 1;
: 583      1112      3      PHYSNAM_DESC [ DSCSB_DTYPE ] = 0;
: 584      1113      3      PHYSNAM_DESC [ DSCSB_CLASS ] = 0;
: 585      1114      3
: 586      1115      3      DVI_ITEM [ 0 ] = ( DVIS FULLDEVNAM^16 or ( PHYS_LENGTH + 2 ) );
: 587      1116      3      DVI_ITEM [ 1 ] = FULLNAM;
: 588      1117      3      DVI_ITEM [ 2 ] = ITEM_LIST [ 15 ];
: 589      1118      3      DVI_ITEM [ 3 ] = 0;
: 590      1119      3      ITEM_LIST [ 15 ] = 0;
: 591      1120      3
: 592      P 1121      3      $GETDVIW (
: 593      P 1122      3      devnam = PHYSNAM_DESC,
: 594      1123      3      itmlst = DVI_ITEM );
: 595      1124      3
: 596      1125      3      IF .FULLNAM [ 0 ] eql XC'_'
: 597      1126      4      THEN BEGIN
: 598      1127      4      ITEM_LIST [ 15 ] = ( LNMS STRING^16 or ( .ITEM_LIST [ 15 ] - 1 ) );
: 599      1128      4      ITEM_LIST [ 16 ] = FULLNAM + 1;
: 600      1129      4      END
: 601      1130      4      ELSE BEGIN
: 602      1131      4      ITEM_LIST [ 15 ] = ( LNMS STRING^16 or .ITEM_LIST [ 15 ] );
: 603      1132      4      ITEM_LIST [ 16 ] = FULLNAM;
```



```

604      1133      3      END;
605      1134      3      ITEM_LIST [ 17 ] = 0;
606      1135      3      ! End item list
607      1136      3      !
608      1137      3      ITEM_LIST [ 18 ] = 0;
609      1138      3      !
610      1139      3      $CRELNM
611      P 1140      3      ( ACMODE = ACMODE,
612      PP 1141      3      TABNAM = (IF .MOUNT_OPTIONS [ OPT_SYSTEM ]
613      PP 1142      3      THEN SYSTEM_TABLE
614      PP 1143      3      ELSE
615      PP 1144      3      IF .MOUNT_OPTIONS [ OPT_GROUP ]
616      PP 1145      3      THEN GROUP_TABLE
617      PP 1146      3      ELSE JOB_TABLE
618      PP 1147      3      )
619      P 1148      3      LOGNAM = NAME_DESC,
620      P 1149      3      ITMLST = ITEM_LIST );
621      1150      3
622      1151      3      SMTL_ENTRY[MTL$UCB] = .UCB;
623      1152      3      SMTL_ENTRY[MTL$V_VOLSET] = 1;      ! identify as a volume set entry
624      1153      3
625      1154      3      LOCK_IODB ();      ! lock the mount list
626      1155      3
627      1156      3      IF .MOUNT_OPTIONS[OPT_GROUP] OR .MOUNT_OPTIONS[OPT_SYSTEM]
628      1157      3      THEN MOUNT_LIST = IOC$GQ_MOUNTLIST[1]
629      1158      3      ELSE
630      1159      3      BEGIN
631      1160      4      JIB = .SCH$GL_CURPCB[PCB$JIB];
632      1161      4      MOUNT_LIST = JIB[JIB$MTLBL];      ! get the tail of the mount list
633      1162      4      END;
634      1163      3      INSQUE (.SMTL_ENTRY, ..MOUNT_LIST);
635      1164      3
636      1165      3      UNLOCK_IODB ();      ! unlock the mount list
637      1166      3
638      1167      3      END;
639      1168      3
640      1169      3
641      1170      3      IF (.SCH$GL_CURPCB [PCB$V_SECAUDIT]
642      1171      3      OR .NSA$GR_ALARMVEC [NSA$V_EVT_MOUNT]
643      1172      3      OR .NSA$GR_JOURNVEC [NSA$V_EVT_MOUNT])
644      1173      3      THEN
645      1174      3      BEGIN
646      1175      3
647      1176      3      LOCAL
648      1177      3      ARGLIST : BBLOCK[NSA$K_ARG2_LENGTH],      ! security auditing argument list
649      1178      3      ORB : REF BBLOCK,      ! address of the ORB
650      1179      3      TEMP_PROT;      ! temporary protection word
651      1180      3
652      1181      3      CH$FILL (0, NSA$K_ARG2_LENGTH, ARGLIST);      ! zero argument list
653      1182      3      ORB = .UCB [UCB$ORB];      ! get ORB address
654      1183      3
655      1184      3      !
656      1185      3      ! Set up the security auditing argument list header
657      1186      3      !
658      1187      3
659      1188      3
660      1189      3      ARGLIST [NSA$K_ARG_COUNT] = ( NSA$K_ARG2_LENGTH/4 ) - 4;
```

```
ARGLIST [NSASL_ARG_ID] = NSASK_RECID_VOL_MOU;      ! initialize length of argument list
                                                    ! less vol-set pkt and arg count
IF .SCH$GL_CURPCB [PCBSV_SECAUDIT]                ! initialize record id as mount
THEN                                                ! set up proper flags
    ARGLIST [NSASV_ARG_FLAG_MANDY] = 1;           ! mandatory auditing
IF .NSASGR_ALARMVEC [NSASV_EVT_MOUNT]
THEN
    ARGLIST [NSASV_ARG_FLAG_ALARM] = 1;           ! generate alarm for this record
IF .NSASGR_JOURNVEC [NSASV_EVT_MOUNT]
THEN
    ARGLIST [NSASV_ARG_FLAG_JOURN] = 1;           ! journal this record
ARGLIST [NSASB_ARG_PKTNUM] = 7;                    ! initialize number of items
                                                    ! less vol-set pkt

! Set up the security auditing argument list for mount

ARGLIST [NSASL_ARG2_UIC_TM] = NSASK_ARG_MECH_LONG^16 + NSASK_PKTTPY_UIC;
ARGLIST [NSASL_ARG2_UIC] = .ORB [ORB$SL_OWNER];     ! set device owner UIC

ARGLIST [NSASL_ARG2_VOLPRO_TM] = NSASK_ARG_MECH_WORD^16 + NSASK_PKTTPY_VOLPRO;

! Get the volume protection
TEMP_PROT = 0;                                     ! clear temp location
IF .ORB [ORB$V_PROT_16]
THEN
    TEMP_PROT = .ORB [ORB$W_PROT]                  ! standard SOGW protection
ELSE
    BEGIN
        TEMP_PROT <0,4> = .(ORB [ORB$SL_SYS_PROT])<0,4>; ! vector protection
        TEMP_PROT <4,4> = .(ORB [ORB$SL_OWN_PROT])<0,4>; ! system
        TEMP_PROT <8,4> = .(ORB [ORB$SL_GRP_PROT])<0,4>; ! owner
        TEMP_PROT <12,4> = .(ORB [ORB$SL_WOR_PROT])<0,4>; ! group
    END;
    TEMP_PROT <12,4> = .(ORB [ORB$SL_WOR_PROT])<0,4>; ! world
ARGLIST [NSASL_ARG2_VOLPRO] = .TEMP_PROT;          ! set volume protection mask

ARGLIST [NSASL_ARG2_MOUFLG_TM] = NSASK_ARG_MECH_LONG^16 + NSASK_PKTTPY_MOUFLG;
ARGLIST [NSASL_ARG2_MOUFLG] = .MOUNT_FLAGS;        ! set mount flags

NSAS$ARGLIST_IMGNAM (ARGLIST [NSASL_ARG2_IMGNAM_TM]); ! set image name

ARGLIST [NSASL_ARG2_DEVNAM_TM] = NSASK_ARG_MECH_DESCR^16 + NSASK_PKTTPY_DEVNAM;
IF .FULLNAM [0] EQL '%C'
THEN
    ITEM_LIST [15] = .ITEM_LIST [15] + 1;          ! include the ' ' char
    ARGLIST [NSASL_ARG2_DEVNAM_SIZ] = .ITEM_LIST [15]; ! set size of full device name
    ARGLIST [NSASL_ARG2_DEVNAM_PTR] = FULLNAM;       ! set full device name buffer address

ARGLIST [NSASL_ARG2_LOGNAM_TM] = NSASK_ARG_MECH_DESCR^16 + NSASK_PKTTPY_LOGNAM;
ARGLIST [NSASL_ARG2_LOGNAM_SIZ] = .NAME_DESC [DSC$W_LENGTH]; ! set size of logical name
ARGLIST [NSASL_ARG2_LOGNAM_PTR] = LOG_BUFFER;       ! set logical name buffer address
```



```

718      1247 3  ARGLIST [NSA$L_ARG2_VOLNAM_TM] = NSA$K_ARG_MECH_DESCR^16 + NSA$K_PKTTY_PVOLNAM;
719      1248 3  ARGLIST [NSA$L_ARG2_VOLNAM_SIZE] =
720      1249 3  LABEL LENGTH (VCB$S_VOLNAME, VCB [VCB$T_VOLNAME]); ! set size of volume name
721      1250 3  ARGLIST [NSA$L_ARG2_VOLNAM_PTR] = VCB [VCB$T_VOLNAME]; ! set volume name buffer address
722      1251 3
723      1252 3  !
724      1253 3  ! If the volume is a member of a volume set, then
725      1254 3  ! a. increment argument count
726      1255 3  ! b. increment number of packets
727      1256 3  ! c. set up volume set descriptor
728      1257 3  !
729      1258 3
730      1259 4  IF ( NOT .BBLOCK [UCB [UCB$L_DEVCHAR], DEV$V_FOR] )
731      1260 4  AND ( .VCB [VCB$W_RVN] NEQ 0 )
732      1261 3  THEN
733      1262 4  BEGIN
734      1263 4  ARGLIST [NSA$L_ARG_COUNT] = .ARGLIST [NSA$L_ARG_COUNT] + 3; ! count vol-set pkt
735      1264 4  ARGLIST [NSA$B_ARG_PKTNUM] = .ARGLIST [NSA$B_ARG_PKTNUM] + 1;
736      1265 4  ARGLIST [NSA$L_ARG2_VOLSNAME_TM] = NSA$K_ARG_MECH_DESCR^16 + NSA$K_PKTTY_VOLSNAME;
737      1266 4  RVT = .VCB [VCB$L_RVT];
738      1267 4  ARGLIST [NSA$L_ARG2_VOLSNAME_SIZE] =
739      1268 4  LABEL LENGTH (RVT$S_STRUCNAME, RVT [RVT$T_STRUCNAME]); ! set size of vol-set name
740      1269 4  ARGLIST [NSA$L_ARG2_VOLSNAME_PTR] = RVT [RVT$T_STRUCNAME]; ! set vol-set name buffer address
741      1270 3  END;
742      1271 3
743      1272 3  CALLG (ARGLIST, NSA$EVENT_AUDIT); ! call event audit routine
744      1273 3
745      1274 2  END; ! end of block defining ARGLIST
746      1275 2
747      1276 1  END; ! end of routine ENTER_LOGNAME

```

												.PSECT		\$SPLITS, NOWRT, NOEXE, 2												
										24	45	50	41	54	00000	P.AAA:	.ASCII	\TAPES\								
										24	48	53	49	44	00005	P.AAB:	.ASCII	\DISK\								
															0000A		.BLKB	2								
															0000C	P.AAD:	.ASCII	\LNMS\$SYSTEM\<0><0>								
															010E000A	00018	P.AAC:	.LONG	17694730							
															00000000	0001C		.ADDRESS	P.AAD							
															00	42	4F	4A	24	4D	4E	4C	00020	P.AAF:	.ASCII	\LNMS\$JOB\<0>
															010E0007	00028	P.AAE:	.LONG	17694727							
															00000000	0002C		.ADDRESS	P.AAF							
30	30	30	30	30	5F	50	55	4F	52	47	24	4D	4E	4C	00030	P.AAG:	.ASCII	\LNMS\$GROUP_000000\								
															30	0003F										
															FFFFFFF81	00040	P.AAH:	.LONG	-127							
															00000000	00044	P.AAI:	.LONG	0							
															00000300	00048	P.AAJ:	.LONG	768							
															00000200	0004C	P.AAK:	.LONG	512							
00	00	57	4F	21	5F	50	55	4F	52	47	24	4D	4E	4C	00050	P.AAM:	.ASCII	\LNMS\$GROUP_!OW\<0><0><0>								
															00	0005F										
															010E000D	00060	P.AAL:	.LONG	17694733							
															00000000	00064		.ADDRESS	P.AAM							
															00	57	4F	21					00068	P.AAO:	.ASCII	\!OW\<0>
															010E0003	0006C	P.AAN:	.LONG	17694723							
															00000000	00070		.ADDRESS	P.AAO							





			14	A6	9F	00095	PUSHAB	20(R6)		
				0C	DD	00098	PUSHL	#12		
		0000V	CF	02	FB	0009A	CALLS	#2, LABEL_LENGTH		
	50	04	AE	50	DO	0009F	MOVL	R0, C		
		04	AE	05	C1	000A3	ADDL3	#5, C, R0		0903
		F8	AD	50	B0	000A8	MOVW	R0, NAME_DESC		
		FC	AD	50	9E	000AC	MOVAB	LOG_BUFFER, NAME_DESC+4		0904
			5A	50	DO	000B2	MOVL	R0, R10		0905
SA	00	00	57	CD	9E	000B5	MOVAB	LOG_BUFFER, R7		
			BE	05	2C	000BA	MOVC5	#5, @P, #0, R10, (R7)		
				67		000C0				
			57	0E	18	000C1	BGEQ	7\$		
			5A	05	C0	000C3	ADDL2	#5, R7		
SA	00	14	A6	05	C2	000C6	SUBL2	#5, R10		
				AE	2C	000C9	MOVC5	C, 20(R6), #0, R10, (R7)		
				67		000D0				
			56	CF	DO	000D1	7\$: MOVL	DEVICE_INDEX, INDEX		0913
			57	AC	DO	000D6	MOVL	UCB, R7		0914
	02	38	A7	05	E1	000DA	BBC	#5, 56(R7), 8\$		
				56	D4	000DF	CLRL	INDEX		0916
00C4	CE	00C0	CE	8F	DO	000E1	8\$: MOVL	#589828, ITEM_LIST		0920
		0000G	CF	10	C1	000EA	ADDL3	#16, MTL_ENTRY, ITEM_LIST+4		0921
				CE	D4	000F2	CLRL	ITEM_LIST+8		0922
		00CC	CE	8F	DO	000F6	MOVL	#65540, ITEM_LIST+12		0929
		00D0	CE	CF	9E	000FF	MOVAB	P.AAH, ITEM_LIST+16		0930
				CE	D4	00106	CLRL	ITEM_LIST+20		0931
		00D8	CE	8F	DO	0010A	MOVL	#131076, ITEM_LIST+24		0932
		00DC	CE	CE	9E	00113	MOVAB	ITEM_LIST+4, ITEM_LIST+28		0933
				CE	D4	0011A	CLRL	ITEM_LIST+32		0934
		00E4	CE	8F	DO	0011E	MOVL	#65540, ITEM_LIST+36		0938
		00E8	CE	CF	9E	00127	MOVAB	P.AAI, ITEM_LIST+40		0939
				CE	D4	0012E	CLRL	ITEM_LIST+44		0940
		00F0	CE	8F	DO	00132	MOVL	#196812, ITEM_LIST+48		0942
07	00000000G		00	00G	E1	0013B	BBC	S*EXESV CONCEALED, EXESGL_FLAGS, 9\$		0943
			50	CF	9E	00143	MOVAB	P.AAJ, R0		0944
				05	11	00148	BRB	10\$		
			50	CF	9E	0014A	9\$: MOVAB	P.AAK, R0		0945
		00F4	CE	50	DO	0014F	10\$: MOVL	R0, ITEM_LIST+52		0943
				CE	D4	00154	CLRL	ITEM_LIST+56		0946
50			56	01	78	00158	ASHL	#1, INDEX, R0		0952
				CF	DF	0015C	PUSHAL	PHYS_NAME[R0]		
00B8	CE		9E	01	A3	00161	SUBW3	#1, 3(SP)+, PHYSNAM_DESC		
00BC	CE	0000G	CF	01	C1	00167	ADDL3	#1, PHYS_NAME+4[R0], PHYSNAM_DESC+4		0953
				CE	B4	00170	CLRW	PHYSNAM_DESC+2		0954
		0094	CE	8F	DO	00174	MOVL	#15204389, DVI_ITEM		0957
		0098	CE	CE	9E	0017D	MOVAB	FULLNAM, DVI_ITEM+4		0958
		009C	CE	CE	9E	00184	MOVAB	ITEM_LIST+60, DVI_ITEM+8		0959
				CE	D4	0018B	CLRL	DVI_ITEM+12		0960
				CE	D4	0018F	CLRL	ITEM_LIST+60		0961
				7E	7C	00193	CLRQ	-(SP)		0965
				7E	7C	00195	CLRQ	-(SP)		
			00A4	CE	9F	00197	PUSHAB	DVI_ITEM		
			00CC	CE	9F	0019B	PUSHAB	PHYSNAM_DESC		
				7E	7C	0019F	CLRQ	-(SP)		
	00000000G	00		08	FB	001A1	CALLS	#8, SYSSGETDVIW		
		5F	8F	CE	91	001A8	CMPB	FULLNAM, #95		0967
				19	12	001AE	BNEQ	11\$		

00FC	50	00FC	CE	00020000	01	C3	001B0	SUBL3	#1, ITEM_LIST+60, R0	0969
	CE	0100	CE	00A5	8F	C9	001B6	BISL3	#131072, -R0, ITEM_LIST+60	
					CE	9E	001C0	MOVAB	FULLNAM+1, ITEM_LIST+64	0970
		00FE	CE		0C	11	001C7	BRB	12\$	0967
		0100	CE	00A4	02	88	001C9	BISB2	#2, ITEM_LIST+60	0973
				0104	CE	9E	001CE	MOVAB	FULLNAM, -ITEM_LIST+64	0974
				0000G	CE	7C	001D5	CLRQ	ITEM_LIST+68	0976
					CF	95	001D9	TSTB	MOUNT_OPTIONS	0988
					46	18	001DD	BGEQ	13\$	
		50	00000000G		00	D0	001DF	MOVL	SCH\$GL_CURPCB, R0	0995
		7E	00BE		CO	3C	001E6	MOVZWL	190(R0), -(SP)	
			0080		CE	9F	001EB	PUSHAB	GROUP_TABLE	
			0084		CE	9F	001EF	PUSHAB	GROUP_TABLE	
			0000'		CF	9F	001F3	PUSHAB	P.AAL	
		00000000G	00		04	FB	001F7	CALLS	#4, SYSS\$FAO	
			50	00000000G	00	D0	001FE	MOVL	SCH\$GL_CURPCB, R0	1000
			7E	00BE	CO	3C	00205	MOVZWL	190(R0), -(SP)	
				70	AE	9F	0020A	PUSHAB	ASC_GROUP_DESC	
				74	AE	9F	0020D	PUSHAB	ASC_GROUP_DESC	
				0000'	CF	9F	00210	PUSHAB	P.AAN	
		00000000G	00		04	FB	00214	CALLS	#4, SYSS\$FAO	
			5B	74	AE	9E	0021B	MOVAB	ASC_GROUP, R11	1002
				00000000G	00	16	0021F	JSB	EXESCRE_GTABLE	
				00C0	CE	9F	00225	PUSHAB	ITEM_LIST	1017
				0C	AE	9F	00229	PUSHAB	ACMODE	
				F8	AD	9F	0022C	PUSHAB	NAME_DESC	
		07	0000G		CF	E9	0022F	BLBC	MOUNT_OPTIONS+1, 14\$	
		50	0000'		CF	9E	00234	MOVAB	SYSTEM_TABLE, R0	
					12	11	00239	BRB	16\$	
				0000G	CF	95	0023B	TSTB	MOUNT_OPTIONS	14\$:
					07	18	0023F	BGEQ	15\$	
		50	0088		CE	9E	00241	MOVAB	GROUP_TABLE, R0	
					05	11	00246	BRB	16\$	
		50	0000'		CF	9E	00248	MOVAB	JOB_TABLE, R0	15\$:
					50	DD	0024D	PUSHL	R0	16\$:
					7E	D4	0024F	CLRL	-(SP)	
		00000000G	00		05	FB	00251	CALLS	#5, SYSS\$CRELNM	
			50	0000G	CF	D0	00258	MOVL	MTL_ENTRY, R0	1021
		0C	A0		57	D0	0025D	MOVL	R7, -12(R0)	
		0000G	CF		00	FB	00261	CALLS	#0, LOCK_IODB	1022
				0000G	CF	95	00266	TSTB	MOUNT_OPTIONS	1024
					05	19	0026A	BLSS	17\$	
		09	0000G		CF	E9	0026C	BLBC	MOUNT_OPTIONS+1, 18\$	
		58	00000000G		00	9E	00271	MOVAB	IOCS\$G_MOUNTLST+4, MOUNT_LIST	1025
					10	11	00278	BRB	19\$	
		50	00000000G		00	D0	0027A	MOVL	SCH\$GL_CURPCB, R0	1028
		5B	0080		CO	D0	00281	MOVL	128(R0), JIB	
		58	04		AB	9E	00286	MOVAB	4(R11), MOUNT_LIST	1029
		00	0000G		DF	0E	0028A	INSQUE	@MTL_ENTRY, @0(MOUNT_LIST)	1031
		0000G	CF		00	FB	00290	CALLS	#0, UNLOCK_IODB	1033
				0000G	CF	D5	00295	TSTL	SMTL_ENTRY	1038
					03	12	00299	BNEQ	20\$	
					01ED	31	0029B	BRW	35\$	
FEF8	CD	0000G	DF	0000G	CF	28	0029E	MOVC3	LOG_NAME, @LOG_NAME+4, LOG_BUFFER	1047
		F8	AD	0000G	CF	3C	002A8	MOVZWL	LOG_NAME, NAME_DESC	1048
		FC	AD	FEF8	CD	9E	002AE	MOVAB	LOG_BUFFER, NAME_DESC+4	1051
	56	0000G	CF		05	E0	002B4	BBS	#5, MOUNT_OPTIONS+3, 23\$	1053



07	0000G	CF	05	E1	002BA	BBC	#5, DEVICE CHAR, 21\$	1056
		6E	CF	9E	002C0	MOVAB	TAPE_PREFIX, P	1057
			05	11	002C5	BRB	22\$	
		6E	CF	9E	002C7	MOVAB	DISK_PREFIX, P	1058
		50	08	AC	D0	MOVL	VCB, R0	1060
		59	20	A0	D0	MOVL	32(R0), RVT	
			0C	A9	9F	PUSHAB	12(RVT)	1061
				0C	DD	PUSHL	#12	
	0000V	CF	02	FB	002D9	CALLS	#2, LABEL_LENGTH	
	04	AE	50	D0	002DE	MOVL	R0, C	
50	04	AE	05	C1	002E2	ADDL3	#5, C, R0	1062
	F8	AD	50	B0	002E7	MOVW	RJ, NAME_DESC	
	FC	AD	CD	9E	002EB	MOVAB	LOG_BUFFER, NAME_DESC+4	1063
		5A	50	D0	002F1	MOVL	R0, R10	1064
		57	CD	9E	002F4	MOVAB	LOG_BUFFER, R7	
5A	00	BE	05	2C	002F9	MOVCS	#5, AP, #0, R10, (R7)	
			67		002FF			
		57	0E	18	00300	BGEQ	23\$	
		5A	05	C0	00302	ADDL2	#5, R7	
5A	00	A9	05	C2	00305	SUBL2	#5, R10	
	0C		AE	2C	00308	MOVCS	C, 12(RVT), #0, R10, (R7)	
			67		0030F			
		56	CF	D0	00310	MOVL	DEVICE INDEX, INDEX	1071
		52	AC	D0	00315	MOVL	UCB, R2	1072
02	38	A2	05	E1	00319	BBC	#5, 56(R2), 24\$	
			56	D4	0031E	CLRL	INDEX	1074
			8F	D0	00320	MOVL	#589828, ITEM_LIST	1078
00C4	CE	00C0	10	C1	00329	ADDL3	#16, SMTL_ENTRY, ITEM_LIST+4	1079
		0000G	CE	D4	00331	CLRL	ITEM_LIST+8	1080
			8F	D0	00335	MOVL	#65540, ITEM_LIST+12	1087
		00CC	CF	9E	0033E	MOVAB	P.AAP, ITEM_LIST+16	1088
		00D0	CE	D4	00345	CLRL	ITEM_LIST+20	1089
			8F	D0	00349	MOVL	#131076, ITEM_LIST+24	1090
		00D8	CE	9E	00352	MOVAB	ITEM_LIST+4, ITEM_LIST+28	1091
		00DC	CE	D4	00359	CLRL	ITEM_LIST+32	1092
			8F	D0	0035D	MOVL	#65540, ITEM_LIST+36	1096
		00E4	CF	9E	00366	MOVAB	P.AAQ, ITEM_LIST+40	1097
		00E8	CE	D4	0036D	CLRL	ITEM_LIST+44	1098
			8F	D0	00371	MOVL	#196812, ITEM_LIST+48	1100
07	00000000G	00	00G	E1	0037A	BBC	S^EXESV CONCEALED, EXESGL_FLAGS, 25\$	1101
		50	CF	9E	00382	MOVAB	P.AAR, R0	1102
			05	11	00387	BRB	26\$	
		50	CF	9E	00389	MOVAB	P.AAS, R0	1103
		00F4	50	D0	0038E	MOVL	R0, ITEM_LIST+52	1101
			CE	D4	00393	CLRL	ITEM_LIST+56	1104
			00F8	02	C4	MULL2	#2, R6	1110
		56	0000G	CF	46	PUSHAL	PHYS_NAME[R6]	
00B8	CE	9E	01	A3	0039F	SUBW3	#1, 3(SP)+, PHYSNAM_DESC	1111
00BC	CE	0000G	CF	46	01	ADDL3	#1, PHYS_NAME+4[R6], PHYSNAM_DESC+4	1112
			00BA	CE	B4	CLRW	PHYSNAM_DESC+2	1115
		0094	CE	8F	D0	MOVL	#15204389, DVI_ITEM	1116
		0098	CE	9E	003BB	MOVAB	FULLNAM, DVI_ITEM+4	1117
		009C	CE	9E	003C2	MOVAB	ITEM_LIST+60, DVI_ITEM+8	1118
			00A0	CE	D4	CLRL	DVI_ITEM+12	1119
			00FC	CE	D4	CLRL	ITEM_LIST+60	1123
			7E	7C	003D1	CLRQ	-(SP)	
			7E	7C	003D3	CLRQ	-(SP)	

			00A4	CE	9F	003D5	PUSHAB	DVI_ITEM	:	
			00CC	CE	9F	003D9	PUSHAB	PHYSNAM_DESC	:	
				7E	7C	003DD	CLRQ	-(SP)	:	
		00000000G	00	08	FB	003DF	CALLS	#8, SYSS\$GETDVIW	:	
		5F	8F	00A4	CE	91	CMPB	FULLNAM, #95	:	1125
				19	12	003EC	BNEQ	27\$	:	
				01	C3	003EE	SUBL3	#1, ITEM_LIST+60, R0	:	1127
00FC	50	00FC	CE	00020000	8F	C9	BISL3	#131072, -R0, ITEM_LIST+60	:	
	CE	0100	CE	00A5	CE	9E	MOVAB	FULLNAM+1, ITEM_LIST+64	:	1128
					0C	11	BRB	28\$	:	1125
		00FE	CE		02	88	BISB2	#2, ITEM_LIST+60	:	1131
		0100	CE	00A4	CE	9E	MOVAB	FULLNAM, -ITEM_LIST+64	:	1132
				0104	CE	7C	CLRQ	ITEM_LIST+68	:	1134
				00C0	CE	9F	PUSHAB	ITEM_LIST	:	1150
				0C	AE	9F	PUSHAB	ACMODE	:	
				F8	AD	9F	PUSHAB	NAME_DESC	:	
			07	0000G	CF	E9	BLBC	MOUNT_OPTIONS+1, 29\$	:	
			50	0000'	CF	9E	MOVAB	SYSTEM_TABLE, R0	:	
					12	11	BRB	31\$	:	
				0000G	CF	95	TSTB	MOUNT_OPTIONS	:	
					07	18	BGEQ	30\$	:	
			50	0088	CE	9E	MOVAB	GROUP_TABLE, R0	:	
					05	11	BRB	31\$	:	
			50	0000'	CF	9E	MOVAB	JOB_TABLE, R0	:	
					50	DD	PUSHL	R0	:	
					7E	D4	CLRL	-(SP)	:	
		00000000G	00	0000G	05	FB	CALLS	#5, SYSS\$CRELM	:	1152
			50		CF	D0	MOVL	SMTL_ENTRY, R0	:	
		0C	A0		52	D0	MOVL	R2, T2(R0)	:	
		0B	A0		01	88	BISB2	#1, 11(R0)	:	1153
		0000G	CF		00	FB	CALLS	#0, LOCK_IODB	:	1155
				0000G	CF	95	TSTB	MOUNT_OPTIONS	:	1157
					05	19	BLSS	32\$	:	
			09	0000G	CF	E9	BLBC	MOUNT_OPTIONS+1, 33\$	:	
			58	00000000G	00	9E	MOVAB	IOC\$GQ_MOUNTLIST+4, MOUNT_LIST	:	1158
					10	11	BRB	34\$	:	
			50	00000000G	00	D0	MOVL	SCH\$GL_CURPCB, R0	:	1161
			5B	0080	C0	D0	MOVL	128(R0), JIB	:	
			58	04	AB	9E	MOVAB	4(R11), MOUNT_LIST	:	1162
		00	B8	0000G	DF	0E	INSQUE	@SMTL_ENTRY, 50(MOUNT_LIST)	:	1164
		0000G	CF		00	FB	CALLS	#0, UNLOCK_IODB	:	1166
			56	00000000G	00	D0	MOVL	SCH\$GL_CURPCB, R6	:	1171
					03	E0	BBS	#3, 39(R6), 36\$	:	
	11	27	A6		01	E0	BBS	#1, NSA\$GR_ALARMVEC, 36\$	:	1172
	09	00000000G	00		01	E0	BBS	#1, NSA\$GR_JOURNVEC, 36\$	:	1173
	01	00000000G	00		04	004A7	RET		:	
					2C	004A8	MOVC5	#0, (SP), #0, #96, ARGLIST	:	1182
0060	8F		00	6E	AE	004AF			:	
				0C	AC	D0	MOVL	UCB, R3	:	1183
				53	A3	D0	MOVL	28(R3), ORB	:	
				50	14	D0	MOVL	#20, ARGLIST	:	1189
		0C	AE	00010008	8F	D0	MOVL	#65544, ARGLIST+4	:	1192
		10	A6		03	E1	BBC	#3, 39(R6), 37\$	:	1194
		27	AE		04	88	BISB2	#4, ARGLIST+8	:	1196
		14	AE		01	E1	BBC	#1, NSA\$GR_ALARMVEC, 38\$	:	1197
	04	00000000G	00		01	88	BISB2	#1, ARGLIST+8	:	1199
					01	E1	BBC	#1, NSA\$GR_JOURNVEC, 39\$	:	1200



14	AE		02	88	004E2	BISB2	#2, ARGLIST+8	:	1202	
15	AE		07	90	004E6	39\$:	MOVB	#7, ARGLIST+9	:	1204
18	AE	0002000C	8F	D0	004EA		MOVL	#131084, ARGLIST+12	:	1211
1C	AE		60	D0	004F2		MOVL	(ORB), ARGLIST+16	:	1212
20	AE	0001000D	8F	D0	004F6		MOVL	#65549, ARGLIST+20	:	1214
			51	D4	004FE		CLRL	TEMP_PROT	:	1218
	06	0B	A0	E9	00500		BLBC	11(ORB), 40\$	:	1219
	51	18	A0	3C	00504		MOVZWL	24(ORB), TEMP_PROT	:	1221
			18	11	00508		BRB	41\$	:	
51		00	A0	F0	0050A	40\$:	INSV	24(ORB), #0, #4, TEMP_PROT	:	1224
51	04	1C	A0	F0	00510		INSV	28(ORB), #4, #4, TEMP_PROT	:	1225
51	04	20	A0	F0	00516		INSV	32(ORB), #8, #4, TEMP_PROT	:	1226
51	04	24	A0	F0	0051C		INSV	36(ORB), #12, #4, TEMP_PROT	:	1227
			51	D0	00522	41\$:	MOVL	TEMP_PROT, ARGLIST+24	:	1229
24	AE		8F	D0	00526		MOVL	#131086, ARGLIST+28	:	1231
28	AE	0002000E	CF	D0	0052E		MOVL	MOUNT_FLAGS, ARGLIST+32	:	1232
2C	AE	0000G	AE	9E	00534		MOVAB	ARGLIST+36, R2	:	1234
	52	30	00	16	00538		JSB	NSA\$ARGLIST_IMGNAM	:	
		00000000G	8F	D0	0053E		MOVL	#262149, ARGLIST+48	:	1236
3C	AE	00040005	CE	91	00546		CMPB	FULLNAM, #95	:	1237
5F	8F	00A4	04	12	0054C		BNEQ	42\$	:	
		00FC	CE	D6	0054E		INCL	ITEM_LIST+60	:	1239
40	AE	00FC	CE	D0	00552	42\$:	MOVL	ITEM_LIST+60, ARGLIST+52	:	1240
44	AE	00A4	CE	9E	00558		MOVAB	FULLNAM, ARGLIST+56	:	1241
48	AE	00040006	8F	D0	0055E		MOVL	#262150, ARGLIST+60	:	1243
4C	AE	F8	AD	3C	00566		MOVZWL	NAME_DESC, ARGLIST+64	:	1244
50	AE	FEF8	CD	9E	0056B		MOVAB	LOG_BUFFER, ARGLIST+68	:	1245
54	AE	00040007	8F	D0	00571		MOVL	#262151, ARGLIST+72	:	1247
	52	08	AC	D0	00579		MOVL	VCB, R2	:	1249
		14	A2	9F	0057D		PUSHAB	20(R2)	:	
			0C	DD	00580		PUSHL	#12	:	
0000V	CF		02	FB	00582		CALLS	#2, LABEL_LENGTH	:	
58	AE		50	D0	00587		MOVL	R0, ARGLIST+76	:	
5C	AE	14	A2	9E	0058B		MOVAB	20(R2), ARGLIST+80	:	1250
	2B	3B	A3	E8	00590		BLBS	59(R3), 43\$	:	1259
		0E	A2	B5	00594		TSTW	14(R2)	:	1260
			26	13	00597		BEQL	43\$	:	
0C	AE		03	C0	00599		ADDL2	#3, ARGLIST	:	1263
		15	AE	96	0059D		INCB	ARGLIST+9	:	1264
60	AE	00040008	8F	D0	005A0		MOVL	#262152, ARGLIST+84	:	1265
	59	20	A2	D0	005A8		MOVL	32(R2), RVT	:	1266
		0C	A9	9F	005AC		PUSHAB	12(RVT)	:	1268
			0C	DD	005AF		PUSHL	#12	:	
0000V	CF		02	FB	005B1		CALLS	#2, LABEL_LENGTH	:	
64	AE		50	D0	005B6		MOVL	R0, ARGLIST+88	:	
68	AE	0C	A9	9E	005BA		MOVAB	12(RVT), ARGLIST+92	:	1269
00000000G	00	0C	AE	FA	005BF	43\$:	CALLG	ARGLIST, NSA\$EVENT_AUDIT	:	1272
			04	005C7			RET		:	1276

; Routine Size: 1480 bytes, Routine Base: \$CODE\$ + 0015

```
: 749 1277 1 ROUTINE LABEL_LENGTH (STR_LENGTH, STR_TEXT) =
: 750 1278 1
: 751 1279 1 ++
: 752 1280 1
: 753 1281 1 FUNCTIONAL DESCRIPTION:
: 754 1282 1
: 755 1283 1 This routine will return the length of a given string.
: 756 1284 1 Trailing blanks at the end of the string are not counted
: 757 1285 1 as part of the string.
: 758 1286 1
: 759 1287 1 NOTE THAT NO VOLUME MAY HAVE A VOLUME LABEL WITH TRAILING BLANKS.
: 760 1288 1
: 761 1289 1
: 762 1290 1 CALLING SEQUENCE:
: 763 1291 1 LABEL_LENGTH (ARG1, ARG2)
: 764 1292 1
: 765 1293 1 INPUT PARAMETERS:
: 766 1294 1 ARG1: Input string length
: 767 1295 1 ARG2: Input string address
: 768 1296 1
: 769 1297 1 IMPLICIT INPUTS:
: 770 1298 1 NONE
: 771 1299 1
: 772 1300 1 OUTPUT PARAMETERS:
: 773 1301 1 NONE
: 774 1302 1
: 775 1303 1 IMPLICIT OUTPUTS:
: 776 1304 1 NONE
: 777 1305 1
: 778 1306 1 ROUTINE VALUE:
: 779 1307 1 NONE
: 780 1308 1
: 781 1309 1 SIDE EFFECTS:
: 782 1310 1 NONE
: 783 1311 1
: 784 1312 1 --
: 785 1313 1
: 786 1314 2 BEGIN
: 787 1315 2
: 788 1316 2 MAP
: 789 1317 2 STR_TEXT : REF VECTOR [,BYTE]; ! Input string
: 790 1318 2
: 791 1319 2 LOCAL
: 792 1320 2 PTR : LONG; ! Pointer to current char.
: 793 1321 2
: 794 1322 2 ! Starting at the end of the string, decrement the string length
: 795 1323 2 ! until a nonblank character is found, or the beginning of the string
: 796 1324 2 ! is encountered.
: 797 1325 2 !
: 798 1326 2
: 799 1327 2 PTR = .STR_LENGTH;
: 800 1328 2 WHILE (.PTR GTR 0) AND (.STR_TEXT [.PTR-1] EQL %ASCII' ') DO
: 801 1329 2 PTR = .PTR - 1;
: 802 1330 2
: 803 1331 3 RETURN (.PTR)
: 804 1332 1 END;
```



			0000	00000	LABEL_LENGTH:			
	51	04	AC	D0 00002	1\$:	MOV	Save nothing	: 1277
			OF	15 00006		STR_LENGTH, PTR		: 1327
50	51	08	AC	C1 00008		ADDL3	2\$	: 1328
	20	FF	A0	91 0000D		CMPB	STR TEXT, PTR, R0	
			04	12 00011		-1(R0), #32		
			51	D7 00013		BNEQ	2\$	
			EF	11 00015		DECL	PTR	: 1329
	50		51	D0 00017	2\$:	BRB	1\$	: 1331
			04	0001A		MOV	PTR, R0	: 1332
						RET		

; Routine Size: 27 bytes, Routine Base: \$CODE\$ + 05DD

```

: 805      1333 1
: 806      1334 1 END
: 807      1335 0 ELUDOM

```

# PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	1528	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)
\$PLIT\$	132	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

# Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	94	0	1000	00:01.9

# COMMAND QUALIFIERS

```

:
: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:MAKLOG/OBJ=OBJ$:MAKLOG MSRC$:MAKLOG/UPDATE=(ENH$:MAKLOG)
:
: Size:      1528 code + 132 data bytes
: Run Time:  00:33.7

```

MAKLOG  
V04-000

J 11  
16-Sep-1984 01:16:19

VAX-11 Bliss-32 V4.0-742

Page 24

: Elapsed Time: 01:07.0  
: Lines/CPU Min: 2376  
: Lexemes/CPU-Min: 26826  
: Memory Used: 345 pages  
: Compilation Complete



0244

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